
Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: Thu Sep 06 17:05:12 EDT 2007

Validated By CRFValidator v 1.0.3

Application No: 10555669 Version No: 1.0

Input Set:

Output Set:

Started: 2007-08-27 08:46:16.101 **Finished:** 2007-08-27 08:46:20.722

Elapsed: 0 hr(s) 0 min(s) 4 sec(s) 621 ms

Total Warnings: 18
Total Errors: 0

No. of SeqIDs Defined: 20

Actual SeqID Count: 20

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     HUNG, CHIEN, FU
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Pro Glu Thr Thr Asp Leu Tyr Cys Tyr Glu Gln Leu Asn Asp Ser Ser
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Glu Glu Glu Asp Glu Ile Asp Gly Pro Ala Gly Gln Ala Glu Pro Asp
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aga gcc cat tac aat att gta acc ttt tgt tgc aag tgt gac tct acg
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Arg Ala His Tyr Asn Ile Val Thr Phe Cys Cys Lys Cys Asp Ser Thr
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ctt cgg ttg tgc gta caa agc aca cac gta gac att cgt act ttg gaa
Leu Arg Leu Cys Val Gln Ser Thr His Val Asp Ile Arg Thr Leu Glu
65
                     70
                                         75
                                                             80
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gat aag ctt 297

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<211> 99

<212> PRT

<213> Human papillomavirus

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Glu Glu Glu Asp Glu Ile Asp Gly Pro Ala Gly Gln Ala Glu Pro Asp 35 40 45

Arg Ala His Tyr Asn Ile Val Thr Phe Cys Cys Lys Cys Asp Ser Thr 50 60

Leu Arg Leu Cys Val Gln Ser Thr His Val Asp Ile Arg Thr Leu Glu 65 70 75 80

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Asp Lys Leu

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<213> Human papillomavirus

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Glu Glu Glu Asp Glu Ile Asp Gly Pro Ala Gly Gln Ala Glu Pro Asp

45

Arg Ala His Tyr Asn Ile Val Thr Phe Cys Cys Lys Cys Asp Ser Thr 50 55 60

Leu Arg Leu Cys Val Gln Ser Thr His Val Asp Ile Arg Thr Leu Glu 65 70 75 80

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85 90 95

Lys Pro

<210> 4

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<212> PRT

<213> Human papillomavirus

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Arg Lys Leu Pro Gln Leu Cys Thr Glu Leu Gln Thr Thr Ile His Asp
20 25 30

Ile Ile Leu Glu Cys Val Tyr Cys Lys Gln Gln Leu Leu Arg Arg Glu 35 40 45

Val Tyr Asp Phe Ala Phe Arg Asp Leu Cys Ile Val Tyr Arg Asp Gly
50 55 60

Asn Pro Tyr Ala Val Cys Asp Lys Cys Leu Lys Phe Tyr Ser Lys Ile 65 70 75 80

Ser Glu Tyr Arg His Tyr Cys Tyr Ser Leu Tyr Gly Thr Thr Leu Glu 85 90 95

Gln Gln Tyr Asn Lys Pro Leu Cys Asp Leu Leu Ile Arg Cys Ile Asn 100 105 110

Cys Gln Lys Pro Leu Cys Pro Glu Glu Lys Gln Arg His Leu Asp Lys 115 120 125

Lys Gln Arg Phe His Asn Ile Arg Gly Arg Trp Thr Gly Arg Cys Met 130 135 140

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<212> PRT

<213> Human papillomavirus

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20 25 30

Cys Lys Gln Gln Leu Leu Arg Arg Glu Val Tyr Asp Phe Ala Phe Arg

35 40 45

Asp	Leu 50	Суз	Ile	Val	Tyr	Arg 55	Asp	Gly	Asn	Pro	Tyr 60	Ala	Val	Суз	Asp	
Lys 65	Суз	Leu	Lys	Phe	Tyr 70	Ser	Lys	Ile	Ser	Glu 75	Tyr	Arg	His	Tyr	Cys 80	
Tyr	Ser	Leu	Tyr	Gly 85	Thr	Thr	Leu	Glu	Gln 90	Gln	Tyr	Asn	Lys	Pro 95	Leu	
Суз	Asp	Leu	Leu 100	Ile	Arg	Cys	Ile	Asn 105	Суз	Gln	Lys	Pro	Leu 110	Суз	Pro	
Glu	Glu	Lys 115	Gln	Arg	His	Leu	Asp 120	Lys	Lys	Gln	Arg	Phe 125	His	Asn	Ile	
Arg	Gly 130	Arg	Trp	Thr	Gly	Arg 135	Суз	Met	Ser	Cys	Cys 140	Arg	Ser	Ser	Arg	
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Gly	Asp	Thr 35	Pro	Thr	Leu	His	Glu 40	Tyr	Met	Leu	Asp	Leu 45	Gln	Pro	Glu	
Thr	Thr 50	Asp	Leu	Tyr	Cys	Tyr 55	Glu	Gln	Leu	Asn	Asp 60	Ser	Ser	Glu	Glu	

Glu Asp Glu Ile Asp Gly Pro Ala Gly Gln Ala Glu Pro Asp Arg Ala

65 70 75 80

His Tyr Asn Ile Val Thr Phe Cys Cys Lys Cys Asp Ser Thr Leu Arg 85 90 95

Leu Cys Val Gln Ser Thr His Val Asp Ile Arg Thr Leu Glu Asp Leu
100 105 110

Leu Met Gly Thr Leu Gly Ile Val Cys Pro Ile Cys Ser Gln Pro \$115\$ \$120\$ \$125\$

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<211> 90

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<213> Human papillomavirus

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<210> 9

<211> 1878

<212> DNA

<213> Mycobacterium tuberculosis

<400> 9

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<211> 625

<212> PRT

<213> Mycobacterium tuberculosis

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20 25 30

Ser Arg Thr Thr Pro Ser Ile Val Ala Phe Ala Arg Asn Gly Glu Val
35 40 45

Leu Val Gly Gln Pro Ala Lys Asn Gln Ala Val Thr Asn Val Asp Arg
50 55 60

Thr Val Arg Ser Val Lys Arg His Met Gly Ser Asp Trp Ser Ile Glu
65 70 75 80

Ile Asp Gly Lys Lys Tyr Thr Ala Pro Glu Ile Ser Ala Arg Ile Leu 85 90 95

Met Lys Leu Lys Arg Asp Ala Glu Ala Tyr Leu Gly Glu Asp Ile Thr
100 105 110

Asp Ala Val Ile Thr Thr Pro Ala Tyr Phe Asn Asp Ala Gln Arg Gln 115 120 125

Ala Thr Lys Asp Ala Gly Gln Ile Ala Gly Leu Asn Val Leu Arg Ile 130 135 140

Val Asn Glu Pro Thr Ala Ala Ala Leu Ala Tyr Gly Leu Asp Lys Gly
145 150 155 160

Glu Lys Glu Gln Arg Ile Leu Val Phe Asp Leu Gly Gly Gly Thr Phe 165 170 175

Asp Val Ser Leu Leu Glu Ile Gly Glu Gly Val Val Glu Val Arg Ala 180 \$185\$

Thr Ser Gly Asp Asn His Leu Gly Gly Asp Asp Trp Asp Gln Arg Val 195 200 205

Val Asp Trp Leu Val Asp Lys Phe Lys Gly Thr Ser Gly Ile Asp Leu 210 215 220

Thr Lys Asp Lys Met Ala Met Gln Arg Leu Arg Glu Ala Ala Glu Lys 225 230 235 240

Ala Lys Ile Glu Leu Ser Ser Gln Ser Thr Ser Ile Asn Leu Pro

245 250 255

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			565					570					575	
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nea ory	0111	580	110	T Y T	OIG	1114	585	CIII	IIIG	ma	DCI	590	ma	1111
Gly Ala	Ala	His	Pro	Gly	Gly	Glu	Pro	Gly	Gly	Ala	His	Pro	Gly	Ser
	595					600					605			
Ala Asp	Agn	77al	Val	Agn	Δla	Glu	Val.	Val	Agn	Agn	Glv	Δκα	Glu	Δla
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ctt cgg ttg tgc gta caa agc aca cac gta gac att cgt act ttg gaa 240 Leu Arg Leu Cys Val Gln Ser Thr His Val Asp Ile Arg Thr Leu Glu 65 75

gac ctg tta atg ggc aca cta gga att gtg tgc ccc atc tgt tct caa 288 Asp Leu Leu Met Gly Thr Leu Gly Ile Val Cys Pro Ile Cys Ser Gln 85 90 95